

C. C. Chandra

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ANNUAL REPORT
OF THE
PORT HEALTH OFFICER, RANGOON
FOR THE YEAR 1920



RANGOON
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1921

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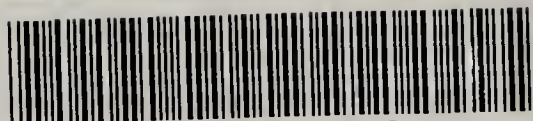
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SANITARY DEPARTMENT.

FROM

LIEUT.-COL. C. E. WILLIAMS, M.D., D.P.H., D.T.M., I.M.S.,

Sanitary Commissioner, Burma,

TO

THE SECRETARY TO THE GOVERNMENT OF BURMA.

Dated Rangoon, the 10th May 1921.

SIR,

I have the honour to submit the report of the transactions of the Port Health Department, Rangoon, for the year 1920.

Immigration.—The total of immigrants from Indian ports was 300,288, an increase of 40,990 on the total for 1919 and of 43,320 on that for 1911, the highest record previous to 1919. The aggregate of immigrants from all ports, foreign as well as Indian, was 316,837 against 313,029 in 1913.

Work done.—Inward-bound sea-going vessels to the number of 1,070 were visited—showing an increase of 437 on the previous year. The number of passengers on these vessels was 315,107. The total of outward-bound vessels dealt with was 391, an increase of 29.

Inspection of inward-bound vessels is carried out under the following sanctions:—

- (1) General Department Notification No. 73 of 1917.
- (2) Vaccination Law Amendment Act, 1909.
- (3) Indian Ports Act (section 17-2D), 1908.
- (4) Notification No. 229 of 1919 (Influenza and Pneumonia).

Ordinarily only vessels which hoist the quarantine signal are liable to inspection under No. (1) of the above sanctions. Under this head 72 vessels were inspected.

Of these 43 reported the presence of infectious disease on board, 69 cases in all. There were 31 cases of cholera on 19 vessels, and 23 cases of small-pox on 16 vessels. On inspection 18 more cases of notifiable disease were detected in these vessels, and one further case developed in hospital on shore. These included 4 cases of cholera and 9 of small-pox. On 28 vessels reporting 38 deaths as due to non-infectious diseases, 26 cases of undeclared infectious disease were detected during inspection of 8 of these vessels, including 12 cases of cholera and 13 of measles. Four cholera-infected vessels reported 4 deaths from non-infectious disease, and two small-pox infected vessels reported 4 deaths from non-infectious disease. These reports are open to grave suspicion.

2. The vessels inspected under the Vaccination Act numbered 352. Of these 45 were found on inspection to be "infected" vessels, with 65 cases of notifiable infectious disease on board, *viz.*:—

Cholera	...	...	2
Small-pox	...	...	45
Chicken-pox	...	...	8
Measles	...	...	10
Total			65

Mumps (non-notifiable) 3.

The masters of none of these 45 vessels had declared that their vessels were "infected." The easily recognisable and very dangerous disease small-pox was overlooked in 45 passengers.

3. Vessels inspected under section 17-2D. of the Indian Ports Act numbered 175. Only a very cursory and general observation of the passengers and crew of the vessels is possible under the conditions laid down by this section. Nevertheless a case of plague was detected in one vessel and sent to hospital where the diagnosis was verified.

Thus, while 43 ships' masters declared their ships to be infected and correctly hoisted the quarantine signal, 97 vessels, an excess of 54 over the declared number, were found to be infected.

4. *Inspection for Influenza and Pneumonia.*—In addition to the vessels inspected under the above three heads, 312 cargo vessels from India not otherwise liable to inspection were inspected for influenza and pneumonia under notification No. 229 of 1919; no infectious cases appear to have been reported from these vessels.

Inspection by the Port Health Staff thus resulted in the discovery of 119 undeclared cases of infectious disease—of which 100 were on 54 vessels classed by their masters as "healthy" and entering the port as such in contravention of notification No. 73 of 1917.

It is surmised that all these vessels conformed to the notification regarding influenza and acute pneumonia, and hoisted the quarantine signal as being suspected vessels, thus escaping a serious penalty for not declaring the presence of infectious disease on board. But for that notification they would probably have entered port without hoisting the quarantine signal and have been liable to prosecution. This experience confirms the opinion expressed in the annual reports for successive previous years that no reliance can be placed upon a majority of ships' masters to detect and report cases of infectious disease on board, and that the Port Health Rules are ineffective by reason of relying upon the ships' masters' reports and not upon medical examination by the Port Health Staff of all such vessels, the only real safeguard in the case of vessels carrying large numbers of immigrants.

5. *Vaccination.*—Out of nearly 237,000 immigrant labourers inspected for marks of vaccination only 13,596 were found liable to vaccination under the Act of 1909 or 5.74 per cent. This compares unfavourably with the 16.36 per cent. of immigrants vaccinated in the 12 months of 1916-17, when the restrictions imposed by the Vaccination Act were interpreted more liberally in the interests of public health. The evidence accumulated in the past few years overwhelmingly demonstrates the inefficiency of vaccination performed in childhood to protect an individual with any certainty after 20 years of age, and that a single mark of vaccination is no guarantee whatever of protection. The Act has thus ceased to serve to any material extent as a protection to the citizens of Rangoon and of Burma generally from the annual introduction among them of large numbers of poor-class immigrants liable to contract and disseminate the infection of small-pox.

6. *Inspection of passengers embarking on outward-bound vessels.*—Among embarking passengers the Port Health Staff detected 5 cases of small-pox, 1 of chicken-pox, 1 of cerebro-spinal fever, and 2 of influenza; while 153 persons were detained for observation on account of a raised temperature.

Medical inspection of passengers embarking for Tavoy and Mergui was by orders of the Local Government discontinued from the 1st July 1920.

7. *Riverine Traffic.*—Nine cases of infectious disease were found on as many inland traffic vessels, *viz.*, plague 3, cholera 3, small-pox 2, and measles 1 case. One death from tuberculosis occurred on another vessel.

8. *Vessels in harbour.*—Eleven cases of infectious disease were dealt with on as many vessels, *viz.*, plague 2, cholera 5, small-pox 3, and measles 1.

9. *Lepers.*—Fourteen immigrant lepers were made over to the police as vagrants.

Disinfection was applied to 513 vessels, 101 for infectious disease, and 412 for suspected influenza. The disinfecting stoves were in use for 901 hours.

Fumigation.—Two inward and 6 outward-bound vessels were fumigated. In the case of the former the process took 25½ hours and 178 rats were collected.

In the latter, which were empty vessels, 404 rats were destroyed on two vessels and 71 on the other four.

Influenza.—Out of 5,456 suspects sent for observation to hospital, 12 cases developed influenza and 90 developed acute pneumonia.

10. *Staff.*—Dr. F. A. Foy who has served in the Port Health Department, Rangoon, for 18 years, since 1902, retired on pension in July. He has served with great credit through a critical period in the progress of the Port of Rangoon, and throughout this period has performed very loyal and meritorious service to this Government and the Sanitary Department, in an employment which demanded in a special degree the exhibition of qualities of integrity, tact, discretion and unremitting activity. His position in semi-independent executive charge of the Port Health Department placed upon him a heavy weight of responsibility, and involved an unceasing strain upon his physical and mental powers. He never failed to respond to the call, and in spite of the harassing nature of his duties, rarely relieved by brief periods of leave, and at times rendered more trying by inadequacy of staff, by his devotion and indefatigability he succeeded in maintaining a high standard of discipline and efficiency in the working of the department and instilling into his assistants and subordinate staff some measure of his own energy and persistence. By his departure the administration of this Province loses the services of an unusually capable and deserving officer.

Mr. C. G. Crow, who succeeded to the appointment on the 26th July, has given evidence of his ability to carry on the work in the spirit of his predecessor and to maintain the traditions established by him. His review of the year's transactions shows a steadily increasing volume of work, performed with a success and smoothness which speak well for the efficiency of the officer in charge and his assistants in all branches. For this my thanks are due to Mr. Crow and the staff of the Port Health Department working under him.

I have the honour to be,

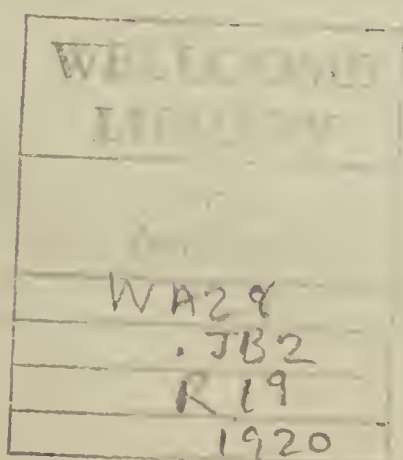
SIR,

Your most obedient servant,

C. E. WILLIAMS, M.D., D.P.H., D.T.M.,

Lieut.-Col., I.M.S.,

Sanitary Commissioner, Burma.





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ANNUAL REPORT

OF THE TRANSACTIONS OF THE

PORT HEALTH DEPARTMENT, RANGOON

FOR THE YEAR 1920.

1. *Staff*.—The appointment of *Port Health Officer* was held by—

Dr. F. A. Foy, 1st January to 25th July.

Mr. C. G. Crow, 26th July to 31st December.

Assistant Port Health Officers.

(a) First Assistant—Mr. I. K. Vazeer (resigned), 1st January to 13th June, and Lieutenant J. W. Greahy, I.M.D., 21st July to 31st December.

(b) Second Assistant—Mr. J. A. Anklesaria (resigned), 1st January to 13th April, and Mr. J. H. Writer, 29th April to 31st December.

(c) * Third Assistant—Lieutenant G. E. Duckworth, I.M.D., 18th February to 31st December.

Sub-Assistant Surgeons.

Mr. S. C. Kastagir, 1st January to 12th February.

Mr. A. N. E. Pinto, 1st January to 29th February.

Mr. R. C. Dutt, 17th April to 31st December.

Mr. K. N. Sircar, 1st April to 21st September.

Mr. M. A. Rauf, 22nd September to 31st December.

* Mr. S. K. Chowdhury, 1st January to 10th June.

* Mr. Mulchand, 11th June to 31st December.

Clerks.

* Mr. K. U. Khan, 1st January to 31st December.

The ordinary clerical staff remained as in 1919, *viz.*—

One Head Clerk, and three Assistant Clerks.

Nurses.

Mrs. Stephenson, 1st January to 31st December.

Mrs. Taylor (part-time), 1st January to 31st August, (full-time) subsequently.

INSPECTION OF INCOMING VESSELS.

2. Vessels that arrived from Indian, foreign and riverine ports numbered 1,221 or 146 more than in 1919 and they carried 317,131 passengers or 45,401 more than in 1919. Of the above vessels 886 were from Indian ports and 325 from foreign ports against 741 and 326 respectively in 1919.

Statements
I and II.

Vessels not visited.—These were 141 vessels against 434 in 1919. These vessels were from foreign ports. They were reported to have carried 10,995 members of the crew and 1,730 passengers.

Vessels visited, (a) Sea-going.—These numbered 1,070, an increase on 1919 of 437. They carried 102,391 members of the crew and 315,107 passengers.

3. Regulations under which they were visited are—

A. *General Department Notification No. 73 of 1917* (Parts i to vii), 73 vessels came under this regulation and included the following reports:—

(i) *Infectious Diseases*.—Sixty-nine cases (65 less than in 1919) were reported by the Commanders of 43 vessels; 19 Commanders reported 31 cases of cholera on board on arrival of which 21 died, (17 were buried at sea and 4 sent to Rangoon mortuary), 8 sent to hospital in Rangoon and 2 left at other ports. Sixteen Commanders reported 23 cases of small-pox of which 4 were left at other ports. One case of small-pox was reported by the Commander of a

* N.B.—Appointed under Notification No. 339 of 1919 regarding influenza.

vessel with a case of cholera as well. Three Commanders reported 8 cases of chicken-pox, 4 reported 6 cases of measles, one reported one case of mumps which was sent to the Contagious Diseases Hospital. On the above 43 vessels 19 more cases were detected at the medical inspection, i.e. cholera 4 cases, small-pox 9 cases, chicken-pox 5 cases and mumps 1 case. Small-pox developed in hospital in one of the suspects sent for observation.

(ii) *Non-infectious deaths* were reported on 28 vessels. These deaths numbered 38; 8 deaths were reported on 6 vessels, 4 deaths on 4 cholera-infected vessels and 4 deaths on 2 small-pox-infected vessels. On these 28 vessels, 26 cases of infectious diseases were detected during inspection. Cholera 12 cases on 3 vessels, chicken-pox 1 and measles 13 cases. Measles developed in hospital in one of the suspects sent for observation. Two cases developed cholera in town. They travelled in two infected vessels.

(iii) *East African Ports*.—Two vessels arrived. No cases of jigger or sleeping sickness were detected at inspection.

(iv) *Suspicious Illness*.—Cases were reported on the above vessels, 171 in number, but after observation these did not prove to be cases of infectious diseases.

B. *Vaccination Act, 1909*.—Vessels inspected under this Act were 352 in number. On 45 of these vessels 68 cases of infectious diseases were detected during inspections, viz. cholera 2, small-pox 45, chicken-pox 8, measles 10 and mumps 3. A protected person is insufficiently defined in the Vaccination Act. A person vaccinated in infancy is not protected in middle age even if he bears good marks.

C. *Indian Ports Act, Section 17-2D*.—Vessels inspected under this Act number 175. A suspected case from one of these vessels developed plague in hospital.

D. The number of extra vessels inspected under *Notification No. 229, dated the 6th September 1919*, making it incumbent on all vessels entering Rangoon from any port in India or Burma to undergo inspection as a precaution against the spread of acute pneumonia and influenza and not liable to inspection under one of the foregoing sanctions comprised 312 cargo vessels. Of these 158 were oil-steamers of the Oil Companies, which moored below the Hastings Shoal, inspected by the Works' Doctors who sent their reports to this office.

4. *Plague*.—One case of plague developed in hospital among the suspects sent for observation from one of the steamers arriving under the Indian Ports Act. Another case was detected among the passengers on S.S. "Arankola" under the Vaccination Law Amendment Act, but the bacteriological examination was negative.

5. *Measures*.—As a result of the visits paid under the regulations referred to in paragraph 3, the following measures were carried out:—

Statement
II.

(1) *Inspections*.—The number of passengers inspected was 302,536 as follows:—

Under Vaccination Act	236,974
Under Vaccination Act (non-labourers exempted) ...	49,516
Under Indian Ports Act	14,626
Under Influenza Notification	1,420

The axillary temperatures of 12,308 persons were tested, of which 6,691 were normal. The need for a large and well-equipped inspection station is very urgent. Passengers and crew are put to considerable discomfort, and the Port Health Staff are often harassed beyond reasonable limits to meet the requirements of this port in the limited space allotted them. Rangoon is the largest immigrant port in the Indian Empire, and is perhaps the only port in which compulsory vaccination is enforced. For part of the period under review, while the Sparks Street Jetty was undergoing repairs, the limitations of space available for landing and examining the passengers were excessively restrictive.

The following were the results of these measures:—

Statement
III.

(a) *Infectious cases* reported and detected were 188, viz., cholera 51, small-pox 78, plague 1, chicken-pox 23, measles 30 and mumps 5. Of these, 119 cases were detected during inspections under the current notifications under the Vaccination and the Indian Ports Acts.

(b) *Inflamed and enlarged glands* noted and sent for examination of gland tissue were 34 but none of them were found to contain plague bacilli.

(c) *Suspects* sent to hospital for observation for temperature, diarrhoea and undefined skin rashes numbered 5,456.

(d) *Influenza*.—Out of the 5,456 cases sent for observation 12 cases of influenza and 90 cases of pneumonia developed.

(e) *Lepers* sent to the Police numbered 14.

(2) *Disinfection*—(a) of effects of 1,273 members of the crew of infected vessels and 11,129 passengers was carried out. A disinfecting pond for immersion of boxes and baths for body cleaning are urgently wanted,—(b) of 513 vessels was also carried out of which 101 were washed down with disinfectant solution for infectious diseases on board, and 412 were hosed down for suspicious cases of influenza on board.

Statement
II.

(3) *Fumigation* of two vessels was carried out, one in May and the other in December. Nine hundred and forty-two lbs. of sulphur were consumed. Twenty-five hours and 15 minutes were spent, and 178 rats were destroyed.

(4) *Vaccination*.—Labourers 236,974 and crew 45,567 were inspected for the presence of even one good old or recent vaccination mark. Of the former 13,596 and of the latter 88 were vaccinated on arrival by the Municipal Vaccinators.

(5) *Segregation* can only be imposed against vessels which arrived plague-infected.

Port Health Camp.—There was no occasion to make use of this camp during the year.

6. *Yellow Fever*.—There is a scheme for making a hospital at King's Bank.

Vessels visited—(b) *Riverine*.—Ten vessels reported the occurrence of infectious and suspicious diseases and underwent the usual measures, 3 for plague, 3 for cholera, 2 for small-pox, 1 for measles and 1 for death subsequently declared to be due to tuberculosis. Three vessels underwent fumigation by burning sulphur in the holds.

Statement
III.

7. *Vessels in harbour visited*.—Fourteen vessels underwent measures, 2 for plague, 5 for cholera, 3 for small-pox, 1 for measles, 1 for suspicious illness and 2 for deaths. The last three proved to be non-infectious. The vessels on which plague cases occurred were not fumigated as they were open sampans. The other measures were duly carried out.

INSPECTION OF OUT-GOING VESSELS.

8. Those proceeding to ports out of India; and for 6 months, those bound for Tavoy were dealt with, and they numbered 391 or 29 more than in 1919. The inspection for Tavoy steamers was suspended from 1st July 1920. The number of Tavoy steamers between 1st January and 30th June was 28. All the 27,481 Asiatic and African members of crew and the 21,889 deck passengers on these vessels had their effects disinfected and the 35,586 members of the crew and 28,213 passengers including Europeans were inspected. The 3,575 baggage coolies were inspected and their uniforms were disinfected prior to their handling passengers' baggage. Temperatures were tested on 1,218 persons and 797 were found normal, while 259 were allowed to embark on the Commanders' responsibility. Sixty-nine passes were given to relatives of passengers to see their friends off.

Statement
IV.

9. *Results*.—Five cases of small-pox, 1 of chicken-pox, 1 of cerebro-spinal fever, 2 of influenza and 153 of suspicious rise of temperature were detained and sent to hospital for observation and treatment.

Inflamed and enlarged glands.—Twelve cases were sent for examination of gland tissue for plague bacilli and none was found to harbour plague bacilli. No cases of plague are known to have developed among the crew and passengers of these vessels on their outward voyages. Vessels in which the crews' quarters had not been cleaned were cleaned prior to issue of Bill of Health.

Inspection of measures to prevent the ingress of rats into vessels at wharves was frequently carried out. These measures when properly carried out may

prevent rats from getting on board. At present the system has no supervision, the guards do not fit the ropes and are in disrepair and in my opinion help rather than deter rats.

10. *New members of the crew inspected prior to signing on the ship's articles* were 2,538 and of these 2,409 were passed fit and 129 rejected, 32 for rise of temperature, 24 for gonorrhoea, 18 for chancre, 7 for syphilis, 9 for hernia, 4 for ringworm, 6 for hydrocele, 1 for orchitis, 16 for eczema, 12 for enlarged glands.

Fumigation of 6 vessels at agents' request was carried out while empty. Four hundred and seventy-five rats were reported destroyed, 404 on two and 71 on 4 vessels, 4 rats were sent for bacteriological examination for plague bacilli with negative results. These vessels required fumigation in order to comply with measures in force at ports of destination (Australia and Fiji Islands).

Fend off certificates were requested by the agents of 6 vessels proceeding to Australia and Fiji Islands and action was taken to see that the requirements were duly carried out prior to their issue.

MISCELLANEOUS TRANSACTIONS AND REMARKS.

Statement
V.

11. *Examination of Port Commissioners' officers and employés*.—There are 2,216 officers, employés and subordinates including daily labourers. The Medical Board was on one Licensed Pilot for fitness for extension of service; he was recommended. Examinations of candidates for fitness to join service were 97 on 66 candidates of whom 62 passed. Examinations for medical certificates were 1,440 on 358 employés of whom 9 died and 347 were declared fit, leaving 2 on the sick list on 31st December 1920. Four cases of hydrocele required attention at hospital.

Infectious diseases among the employés were plague 5, small-pox 2 and influenza 5.

The Port Commissioners' employés are presumably under Port Health Officer's medical control and yet the Port Health Officer has no voice in the matter of housing, sanitation, etc. The coolies are indifferently housed and there is considerable over-crowding. The municipality does some vaccination. I consider that every officer should be physically inspected yearly and every menial bi-yearly.

Port Health Department employés and Police who reported sick were 20: no cases of influenza or infectious diseases were recorded.

12. *Total cases of infectious diseases* dealt with by this department were 245, of which influenza were 21.

The disinfecting stove was closed for 901 hours and 5 minutes.

13. *Non-infectious diseases* dealt with and sent to hospitals numbered 6,058 or 350 more than in 1919. Others not sent to hospital were recorded for reference including glands and skin diseases.

14. *Port Health Staff*.—This staff has had a very strenuous time; immigration has been the largest on record and to this was added the Influenza Inspection. Lieutenant Duckworth and Dr. Writer have, under very trying circumstances, carried out their duties whole-heartedly and thoroughly and they have been ably helped by the rest of my staff.

CHAS. G. CROW, K.-I.-H., I.M.D.,
Port Health Officer, Rangoon.

APPENDICES.

STATEMENT

Statement showing Incoming Sea-going Vessels

Months.	Not visited (1)							Visits. (2)								
	Number of vessels.	Number of crew.	Number of Passengers.					Number of vessels.	Number of crew.	Number of Passengers.					Number of vessels.	Number of crew.
			Males.	Females.	Boys.	Girls.	Total.			Males.	Females.	Boys.	Girls.	Total.		
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)
January ...	15	1,143	82	66	14	13	175	79	7,141	15,735	1,376	623	350	18,084	61	5,621
February ...	14	1,164	167	94	13	8	282	93	8,994	22,252	2,022	1,123	590	25,987	80	7,129
March ...	11	945	67	16	6	1	90	98	8,957	14,917	1,412	608	442	17,379	73	6,551
April ...	10	690	9	.	7	..	16	92	8,762	14,908	1,710	720	537	17,875	76	6,824
May ...	12	988	262	7	1	..	270	94	9,008	18,597	1,955	819	661	22,032	79	7,174
June ...	10	664	24	10	1	3	38	82	7,994	16,957	1,749	803	546	20,055	71	6,376
July ...	13	1,110	51	11	2	..	64	86	8,566	18,770	1,573	602	460	21,405	73	6,840
August ...	13	987	36	..	..	..	36	77	7,678	17,388	1,511	726	457	20,082	63	5,937
September ...	11	935	90	56	6	9	161	79	7,874	23,347	1,892	1,008	543	26,790	66	6,303
October ...	13	950	122	69	8	15	214	95	8,790	27,272	1,941	1,074	547	30,834	75	6,642
November ...	11	779	84	60	9	16	169	97	9,151	43,739	2,431	1,166	704	48,040	83	7,650
December ...	8	600	126	78	6	5	215	98	9,476	41,384	2,989	1,359	812	46,544	86	8,031
Total ...	141	10,955	1,120	467	73	70	1,730	1,070	102,391	275,266	22,561	10,631	6,649	315,107	886	81,078

STATEMENT

Statement showing the inspection of Incoming Sea going Vessels and the work

Months.	Medical Inspection and Observation.												Non-labourers observed under Vaccination Law Amendment Act.					Observation India	
	Crew.	Passengers.	Temperatures.			Infectious Diseases.			Non-Infectious diseases.		Deaths in vessels.		Males.	Females.	Boys.	Girls.	Total.	Males.	Females.
			Tested.	Normal.	Sick.	Reported.	Detected.	Influenza.	Reported.	Detected.	Infections.	Non-Infections.							
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)	(18)	(19)	(20)
January ...	5,738	16,865	461	201	260	2	6	3	21	228	...	1	1,526	966	500	226	3,218	530	69
February ...	7,411	24,580	556	242	318	8	18	7	20	270	...	3	2,670	1,962	887	395	5,214	855	194
March ...	7,650	16,845	718	364	354	15	32	1	14	222	...	...	1,584	973	492	301	3,351	601	101
April ...	7,353	16,626	616	303	312	4	10	...	25	274	1	2	1,214	1,129	473	358	3,174	1,065	246
May ...	7,596	20,825	972	525	449	5	5	1	22	416	3	5	1,518	1,415	606	484	4,023	962	163
June ...	6,666	19,128	1,087	717	370	1	22	...	9	322	9	7	1,129	1,300	556	396	3,391	1,141	260
July ...	6,811	20,583	1,223	790	423	5	7	...	8	413	2	2	1,178	1,254	458	352	3,248	694	152
August ...	6,933	19,396	877	491	326	...	3	...	6	377	...	1	1,714	1,276	653	390	4,033	717	69
September ...	7,224	25,997	1,272	717	555	1	6	...	10	538	...	1	1,544	1,592	840	442	4,418	834	157
October ...	8,192	29,919	1,438	692	746	2	1	...	8	735	1	2	2,353	1,454	861	394	5,062	960	249
November ...	8,452	46,992	1,562	784	728	2	5	...	12	757	1	6	1,589	1,897	960	548	4,994	900	278
December ...	7,970	45,229	1,526	865	641	2	3	...	15	641	2	8	1,093	2,424	1,142	621	5,290	1,626	222
Total ...	86,022	202,566	12,808	6,621	5,622	46	119	12	171	5,273	21	38	19,122	17,042	8,429	4,923	42,516	10,901	2,156

No. I.

during the year ending the 31st December 1920.

From Indian ports. (3)					From Foreign Ports. (4)							Totals of (1) and (2) or (3) and (4).						
Number of Passengers.					Number of vessels. (23)	Number of crew. (24)	Number of Passengers.					Number of vessels. (30)	Number of crew. (31)	Number of Passengers.				
Males. (18)	Females. (19)	Boys. (20)	Girls. (21)	Total. (22)			Males. (25)	Females. (26)	Boys. (27)	Girls. (28)	Total. (29)			Males. (32)	Females. (33)	Boys. (34)	Girls. (35)	Total. (36)
15,241	1,288	598	336	17,463	33	2,663	576	154	39	27	796	94	8,284	15,817	1,442	637	363	18,259
21,569	1,716	1,010	510	24,805	27	3,029	850	400	126	88	1,464	107	10,158	22,419	2,116	1,136	598	26,269
14,147	1,298	574	422	16,441	36	3,351	837	130	40	21	1,028	109	9,902	14,984	1,428	614	443	17,469
13,839	1,463	580	485	16,367	26	2,628	1,078	247	147	52	1,524	102	9,452	14,917	1,710	727	537	17,891
17,629	1,792	731	618	20,770	27	2,822	1,230	170	89	43	1,532	106	9,996	18,859	1,962	820	661	22,302
15,814	1,501	630	474	18,419	21	2,282	1,067	258	14	75	1,674	92	8,658	16,981	1,759	804	549	20,093
18,076	1,415	528	418	20,437	26	2,836	745	169	76	42	1,032	99	9,676	18,821	1,584	604	460	21,469
16,666	1,442	709	444	19,261	27	2,728	758	69	17	13	857	90	8,665	17,424	1,511	726	457	20,118
22,511	1,735	921	504	25,671	24	2,506	926	213	91	48	1,280	97	8,809	23,437	1,948	1,014	552	26,951
26,312	1,692	941	476	29,421	33	3,098	1,082	318	141	86	1,627	108	9,740	27,394	2,010	1,082	562	31,048
42,840	2,153	1,041	645	46,679	25	2,280	983	338	134	75	1,530	108	9,930	43,823	2,491	1,175	720	48,209
39,748	2,767	1,269	770	44,554	20	2,045	1,702	300	96	47	2,205	106	10,076	41,510	3,067	1,365	817	46,759
264,392	20,262	9,532	6,102	300,288	325	32,268	11,994	2,766	1,172	617	16,549	1,211	112,346	276,386	23,028	10,704	6,719	316,837

No. II.

done by the Port Heath Department during the year ending 31st December 1920.

under section 17-2D, n Ports Act.			Inspection under General Depart- ment Notification No. 299, dated the 2nd September 1919.					Vaccination.						Disinfection.			Fumigation.						
Boys. (21)	Girls. (22)	Total. (23)	Males. (24)	Females. (25)	Boys. (26)	Girls. (27)	Total. (28)	Crew.			Labourers.			Vessels. (36)	Effects.		Number of vessels. (38)	Condition. (39)	Sulphur consumed. (40)	Time spent. (41)	Number of rats destroyed. (42)	Number sent for examination. (43)	Plague bacilli found. (44)
								Protected. (29)	Unprotected. (30)	Vaccinated at wharf. (31)	Protected. (32)	Unprotected. (33)	Vaccinated at at wharf. (34)		Crew. (35)	Passengers. (37)							
12	11	621	...	...	...	...	...	3,328	9	9	12,368	657	656	80	...	...	...	...	...	...	...	...	...
75	52	1,182	177	3	2	2	184	3,619	49	49	16,878	1,177	1,177	85	...	640	...	...	...	...	...	...	...
29	18	748	71	5	...	1	77	2,708	8	8	11,816	852	852	34	312	2,636	...	...	...	...	...	...	...
139	69	1,509	26	18	5	8	57	2,590	9	9	10,963	903	903	88	...	2,488	...	...	...	...	...	...	...
88	43	1,262	377	4	...	1	332	2,600	1	1	14,169	869	869	85	140	941	1	E	412	H. M. 11 15	16	...	...
173	72	1,636	407	5	...	2	412	3,455	5	5	12,799	948	947	48	496	1,731	...	...	...	...	...	...	...
74	42	968	20	2	...	...	22	8,880	...	...	15,258	1,087	1,086	45	161	1,679	...	...	...	...	...	...	...
17	13	812	15	4	1	...	20	2,374	...	...	12,699	823	823	38	...	...	...	...	...	...	...	...	...
17	39	1,117	61	...	...	...	61	2,980	...	...	19,217	1,124	1,172	53	...	...	...	...	...	...	...	...	...
133	71	1,413	11	3	8	...	17	3,766	6	6	22,426	1,001	1,001	54	...	809	...	...	...	...	...	...	...
126	69	1,362	184	...	...	...	184	2,422	...	...	38,414	2,039	2,039	57	60	194	...	...	...	...	...	...	...
90	42	1,990	1	1	...	...	2	2,757	1	1	25,832	2,125	2,082	51	163	511	1	E	530	14 0	102	...	...
1,012	527	14,626	1,850	45	11	14	1,420	45,479	88	88	223,314	12,660	12,406	513	1,275	11,129	2	E	942	95 15	178	...	...

STATEMENT

Statement showing Infectious and other Diseases reported and detected on In-coming

Diseases.	January.		February.		March.		April.		May.		June.		July.		August.		September.	
	Vessels.	Cases.	Vessels.	Cases.	Vessels.	Cases.	Vessels.	Cases.	Vessels.	Cases.	Vessels.	Cases.	Vessels.	Cases.	Vessels.	Cases.	Vessels.	Cases.
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)	(18)	(19)
<i>Sea-Going Vessels.</i>																		
Plague		1	1	...	...	..	...	...	...	...	...
Cholera	2	3	2	3	5	7	3	25	3	8	...	...	...	...
Small-pox	...	1	3	8	12	15	32	9	10	2	2	4	3	6	...	...	3	5
Chicken-pox	...	1	1	3	4	4	10	1	2	...	...	...	...	...	1	1	...	...
Measles	...	2	3	1	5	...	...	...	3	3	3	9	...	...	2	2	1	1
Mumps	...	1	1	...	...	...	2	...	1	...	...	...	...	...	...	...	1	1
Jigger	1	...	...	...	...	...	...	...	...	...	1	...	...	...
Influenza	...	3	...	7	...	1	...	...	1	...	...	...	394	...	...	...	...	...
Suspicious illness	...	248	...	278	...	289	...	290	...	412	...	301	...	19	...	368	...	522
Ordinary illness	...	3	...	8	...	14	...	5	...	23	...	36	...	...	...	11	...	23
Lepers	...	1	...	1	...	1	...	1	...	1	...	...	...	...	...	2	...	2
Glands	...	3	...	3	...	2	...	3	...	2	...	4	...	8	...	2	...	1
Deaths (ordinary)	...	1	1	3	3	...	...	2	3	5	1	7	2	2	1	1	1	1
Total	6	261	15	321	22	354	14	317	14	457	9	386	8	437	5	387	6	556
<i>Riverine Vessels.</i>																		
Plague	1	1	...	...	...	...	...	...	1	1	...	...	1	1	...	...
Cholera	1	1	...	...	...	...	1	1	1	1	...	...	...	...	...	...
Small-pox	...	1	1	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Measles	...	1	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Suspicious illness	...	3	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...
Deaths (ordinary)
Total	2	5	3	3	...	...	...	...	1	2	2	2	...	...	1	1	...	...
<i>Vessels in Port.</i>																		
Plague	1	...
Cholera	1	1	...	...	...	...	...	...
Small-pox	...	1	3	1	1	1	1	...	...	...	...	...	...	...	...	...	...	...
Measles	1	1	...	...	...	...	...	...	...	...	...	...	...	...
Influenza	2	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Suspicious illness	2	...	...	...	...	...	...	...	...	...	...	1	9	...	...
Deaths (ordinary)	1
Total	1	3	1	5	2	2	...	...	...	...	1	1	...	...	1	9	1	1
GRAND TOTAL	9	269	19	329	24	356	14	317	15	459	12	389	8	437	7	397	7	557

* Including 17 Vessels

No. III
Sea-going Vessels, during the year ending 31st December 1920.

October		November.		December.		Total.		Disposal of Cases.												
								Sick.								Corpses				
								Hospitals.												
Vessels.	Cases.	Vessels.	Cases.	Vessels.	Cases.	Vessels.	Cases.	Contagious Diseases.	Government Plague.	Civil General.	Military.	Leper asylum.	Residences.	Left on board.	Left at other ports.	Total.	Left at other ports.	Buried at sea.	Rangoon mortuary.	Total.
(20)	(21)	(22)	(23)	(24)	(25)	(26)	(27)	(28)	(29)	(30)	(31)	(32)	(33)	(34)	(35)	(36)	(37)	(38)	(39)	(40)
...	...	...	...	...	...	1	1	..	1	...	...	...	...	...	...	1	...	...	...	...
1	1	1	1	3	3	20	51	26	...	...	...	...	2	...	2	30	...	17	4	21
..	..	2	2	1	2	46	78	71	2	...	1	..	..	...	4	78	...	..	...	...
1	1	1	1	3	3	15	23	22	..	..	1	...	..	...	...	23	...	...	...	...
2	2	3	5	..	...	17	30	20	4	1	...	...	3	2	..	30	...	...	...	...
...	...	..	...	...	...	2	5	5	..	..	...	...	...	...	...	5	...	...	..	...
...	...	..	...	..	...	2	..	..	...	...	...	...	...	...	...	...	...	...	...	...
...	...	...	...	..	...	...	12	1	11	..	...	...	...	...	...	12	...	...	...	...
...	694	...	42	..	636	..	5,168	116	4 668	1	108	...	209	66	...	5,168	...	...	...	...
...	44	..	24	...	18	...	228	...	..	102	6	...	24	96	..	228	...	...	...	...
...	1	...	3	..	1	...	14	...	...	..	...	14	...	...	...	14	...	..	...	...
...	4	..	1	...	1	...	34	...	34	...	...	...	...	...	...	34	...	...	...	...
2	2	3	6	5	8	24	38	...	..	..	...	...	...	...	...	...	...	32	6	38
6	749	10	785	12	672	127	5,682	261	4,720	104	116	14	238	164	6	5,623	...	49	10	59
...	...	...	...	...	...	3	3	..	...	...	..	...	2	...	...	2	...	...	1	1
...	...	...	..	..	...	3	3	...	...	...	..	...	1	...	2	3	...	...	...	...
..	...	...	...	..	...	2	2	2	...	...	...	...	...	...	..	2	...	...	...	...
...	...	...	...	..	...	1	1	1	..	..	...	...	..	...	..	1	...	...	...	...
..	...	...	...	...	...	...	4	...	4	..	...	...	...	...	...	4	..	...	...	...
...	..	1	1	...	...	1	1	..	...	..	...	...	...	...	...	...	...	...	1	1
...	...	1	1	..	..	10	14	3	4	...	...	...	3	...	2	12	..	...	2	2
...	...	...	...	1	1	2	2	..	1	...	...	...	1	..	..	2	...	...	...	...
...	...	2	2	2	2	5	5	4	...	...	...	...	..	...	...	4	...	...	1	1
...	...	...	...	...	..	3	5	5	...	...	...	...	...	...	...	5	..	...	...	...
...	...	...	...	...	...	1	1	1	...	...	...	...	...	...	...	1	...	...	...	...
...	...	...	...	...	..	...	2	...	2	...	...	...	...	...	...	2	...	...	...	...
...	...	...	...	...	...	1	11	...	2	...	9	...	...	...	...	11	...	...	...	..
1	1	1	3	...	...	2	4	...	...	...	...	...	...	...	...	..	...	...	4	4
1	1	3	5	3	3	14	30	10	5	...	9	..	1	...	...	25	...	...	5	5
7	750	14	791	15	675	151	5,726	274	4,729	104	125	14	242	164	8	5,660	...	49	17	66

inspected for jigger.

STATEMENT

Statement showing the work done in connection with Out-going Vessels bound

Months.	Number of vessels.	Shore Inspection.														Results of Inspection.				
		Asiatic crew.	Deck Passengers.					European crew.	Saloon Passengers.					Passes to relatives and friends.	Baggage coolies.	Glands.	Temperature			
			Males.	Females.	Boys.	Girls.	Total.		Males.	Females.	Boys.	Girls.	Total.				Tested.	Normal.	Allowed on m. c. or at Commander's request.	Cases detained.
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)	(18)	(19)	(20)	(21)
January	45	2,528	846	192	66	30	1,134	590	260	61	19	13	353	6	375	4	86	65	12	13
February	44	3,006	935	207	51	36	1,229	941	402	243	48	56	749	6	361	2	69	40	20	11
March ...	38	2,743	1,412	280	128	55	1,875	557	367	195	42	52	656	7	295	2	120	83	16	23
April ...	35	2,412	1,116	229	91	61	1,497	626	482	231	76	79	868	12	319	1	137	111	15	12
May ...	47	2,989	6,325	342	149	87	6,903	1,157	531	189	48	30	798	10	485	1	144	116	16	13
June ...	37	2,599	2,414	206	127	61	2,808	767	430	216	62	87	795	9	428	...	188	143	20	25
July ...	27	2,095	525	56	21	18	620	672	293	128	62	51	534	6	204	2	119	91	11	19
August	19	1,778	658	41	20	15	734	388	143	57	18	12	230	2	178	...	75	30	31	14
September	27	2,418	666	42	43	13	764	493	243	100	37	27	407	5	251	...	94	45	33	16
October	19	1,844	708	241	50	25	1,024	455	233	97	23	31	384	2	243	...	88	41	43	4
November	24	1,484	2,553	67	36	21	2,677	591	177	54	13	14	258	4	198	...	41	14	26	1
December	29	1,585	547	38	28	11	624	868	190	69	17	16	292	...	238	...	45	18	16	11
Total ...	391	27,481	18,705	1,941	810	433	21,889	8,105	3,751	1640	465	468	6,324	69	3,575	12	1206	797	259	162

STATEMENT

Statement showing Medical Inspection of Port Trust Officers, Employés

Months.		Medical Boards.				Port Trust Candidates.		
		Pilots examined for		Officers examined for		Number of examinations of candidates.	Number of candidates examined.	Number of candidates passed.
		Leave	Physical fitness.	Leave	Physical fitness.			
(1)		(2)	(3)	(4)	(5)	(6)	(7)	(8)
January	7	5	4
February	9	5	5
March	13	13	13
April	11	8	8
May	6	4	4
June	4	2	2
July	1	...	...	12	8	7
August	6	4	4
September	2	2	2
October	12	8	7
November	8	4	4
December	7	3	2
Total	1	...	...	97	66	62

No. IV.

for Ports beyond India during the year ending 31st December 1920.

Diseases.					Disposal of sick.						Disinfection.				Fumigation with Clayton apparatus at Agent's request.			
Cerebro spinal Fever.	Small-pox.	Chicken-pox.	Influenza.	Fever and other ailments.	Civil General Hospital.	Plague Hospital.	Contagious Diseases Hospital.	Temporary Municipal Hospital.	Passengers' residences.	Leper Asylum.	Asiatic crew and passengers' effects.	Boots and shoes.	Boxes.	Baggage coolies.	Vessels.	Sulphur consumed.	Time spent.	Amount realized.
(22)	(23)	(24)	(25)	(26)	(27)	(28)	(29)	(30)	(31)	(32)	(33)	(34)	(35)	(36)	(37)	(38)	(39)	(40)
..	1	..	..	12	2	7	2	2	..	..	3,662	707	782	375	..	lb.	H. M.	Rs.
..	1	1	2	8	..	10	1	..	..	..	4,235	1,328	1,061	361	..	..	..	..
..	1	..	..	21	3	9	5	..	6	..	4,618	1,099	743	295	..	..	..	..
..	1	..	..	11	1	9	1	..	..	1	3,909	1,024	792	319	2	880	34	665
..	..	..	..	13	..	12	..	1	..	..	9,892	1,002	765	485	4	1,833	60'15	1,080
..	1	..	..	24	3	20	1	..	1	..	5,407	973	747	428	..	..	..	..
1	..	..	..	18	1	5	2	1	10	..	2,715	734	594	204	..	..	..	..
..	..	..	..	14	..	4	1	..	9	..	2,512	661	455	178	..	..	..	..
..	..	..	..	16	4	12	..	..	..	..	3,182	882	794	251	..	..	..	..
..	..	..	..	4	3	..	..	1	..	..	2,868	721	607	243	..	..	..	..
..	..	..	..	1	..	..	..	1	..	..	4,161	613	353	198	..	..	..	..
..	..	..	..	11	4	7	..	..	..	..	2,209	786	610	238	..	..	..	..
1	5	1	2	153	21	95	13	6	26	1	49,370	10,530	8,303	3,575	6	2,713	94'15	1,745

No. V.

and Shipping Office Crew during the year ending 31st December 1920.

Port Trust employes for medical certificate.				Epidemic Diseases				Examination of new crew.			Examination of sick persons of Port Health Department, Plague, Police and employes.	
Number of employes on sick list on last day of previous month.	Number of employes who took ill during the year.	Number of examinations of employes.	Number of employes declared fit at expiry of medical leave.	Plague.	Cholera.	Small-pox.	Influenza.	Number examined.	Number passed.	Number rejected.	Number of Plague Police Constables examined.	Number of Port Health employes examined.
(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)	(18)	(19)	(20)	(21)
6	13	102	18	..	..	..	..	268	252	16	1	1
4	16	87	Died 1	..	..	..	..	210	196	14	2	..
4	15	61	20	..	..	1	..	125	113	12	..	1
2	25	74	18	..	..	..	..	308	295	13	..	..
7	18	85	26	..	..	..	..	94	90	4	..	..
5	36	160	25	2	..	..	..	263	249	14	1	..
9	36	166	40	..	..	..	1	353	335	18	1	2
5	21	108	45	3	..	1	..	170	158	12	1	2
5	36	175	23	..	..	..	4	264	259	5	1	..
8	33	163	39	..	..	..	..	115	111	4	..	3
4	31	150	Died 2	..	..	..	..	76	74	2	2	1
6	13	109	41	..	..	..	..	292	277	15	2	..
65	293	1,440	35	5	..	2	5	2,538	2,409	129	11	10

STATEMENT No. VI.

*Statement showing the ordinary diseases sent to Hospitals during the year ending
31st December 1920.*

Names of Diseases. (1)	In-coming. (2)	Out-going. (3)	Riverine. (4)	Port. (5) (6)		Port Trust. (7) (8)		New crew inspection. (9)	Port Health Department. (10) (11)		Total. (12)
				Vessels.	Launches.	Shore.	Launches.		Plague police.	Port Health employees	
Rise of temperature ...	5,089	124	3	6	...	59	12	32	4	3	5,332
Malarial fever ..	32	4	...	9	...	12	2	...	1	1	61
Beri-beri ...	2	1	...	...	...	1	...	...	...	...	4
Oedema ...	2	...	...	...	...	2	...	...	...	...	4
Leprosy ...	14	...	...	...	...	...	...	...	...	...	14
Dysentery ...	5	1	...	...	...	7	1	...	...	...	14
Debility ...	14	...	...	...	...	15	3	...	...	...	32
Tuberculosis ...	2	...	...	...	...	...	...	...	...	...	2
Rheumatism ..	5	...	...	...	...	7	1	...	...	...	13
Bronchitis ...	7	...	...	...	...	12	3	...	...	...	22
Heart Disease ...	1	...	...	...	...	...	...	...	...	...	1
Pneumonia ...	90	4	...	...	...	2	1	...	...	...	97
Tonsillitis ...	...	...	...	...	...	1	...	...	1	...	2
Diarrhoea ...	19	...	...	3	...	5	3	...	...	...	30
Dyspepsia ...	1	...	...	...	...	5	1	...	...	...	7
Constipation ...	3	...	...	...	...	8	6	...	2	...	19
Colic ...	...	...	...	...	...	2	...	...	...	...	2
Jaundice ...	1	...	...	...	...	3	...	...	...	...	4
Neuritis ...	...	...	...	...	...	1	...	...	...	...	1
Cellulitis ...	...	...	...	1	...	...	...	...	...	...	1
Synovitis ...	2	...	...	...	...	...	...	...	...	...	2
Pharyngitis ...	...	...	...	...	...	3	...	...	...	...	3
Colitis ...	...	...	...	...	...	...	...	...	...	1	1
Urethritis ...	...	...	...	...	...	...	1	...	...	...	1
Piles ...	2	...	...	...	...	...	...	...	...	...	2
Enlargement of Liver ...	1	...	...	...	...	...	...	...	...	...	1
Pleurisy ...	3	...	...	...	...	...	...	...	...	...	3
Diabetes ...	1	...	...	...	...	...	...	...	...	...	1
Doubtful rash ...	33	3	1	...	...	...	...	...	...	...	37
Ankylostomiasis ...	2	...	...	...	...	...	...	...	...	...	2
Ricketts ...	1	...	...	...	...	...	...	...	...	...	1
Enteritis ...	1	...	...	...	...	1	...	...	...	...	2
Gastritis ...	2	...	...	...	...	...	...	...	1	...	3
Pains ...	...	...	...	...	...	4	3	...	...	...	7
Catarrh ...	...	...	...	...	...	1	...	...	...	...	1
Ear-ache ...	...	...	...	...	...	3	...	...	...	...	3
Tooth-ache ...	...	...	...	...	...	1	...	...	...	...	1
Sore throat ...	...	...	...	...	...	...	1	...	...	...	1
Conjunctivitis ...	11	...	...	...	...	2	4	...	...	...	17
Eczema ...	6	...	...	...	...	4	2	16	...	...	28
Scabies ...	13	1	...	...	...	7	3	...	1	...	25
Ringworm ...	7	...	...	...	...	4	1	4	1	1	18
Dog-bite ...	1	...	...	...	...	1	...	...	...	1	3
Lumbago ...	2	...	...	...	...	1	...	...	...	...	3
Epileptic fit ...	1	...	...	...	...	...	...	...	...	...	1
Hepatitis ...	2	...	...	...	...	...	...	...	...	...	2
Fistula ...	...	...	...	...	...	1	...	...	...	...	1
Hiccough ...	...	...	...	...	...	1	...	...	...	...	1
Warts ...	...	...	...	...	...	...	...	...	...	1	1
Hernia ...	1	...	...	...	...	1	...	9	...	...	11
Hydrocele ...	2	...	...	...	...	4	...	6	...	...	12
Orchitis ...	...	...	...	...	...	2	...	1	...	...	3
Gonorrhoea ...	3	9	...	3	...	7	1	24	...	...	47
Syphilis ...	8	2	...	...	...	2	...	7	...	...	19
Chancre ...	3	...	...	...	...	8	1	18	...	...	30
Phimosis ...	...	...	...	...	...	2	...	...	...	...	2
Bubo ...	5	...	...	1	...	...	...	...	...	...	6
Sinus ...	1	...	...	...	...	...	...	...	...	...	1
Ulcer ...	7	2	...	...	...	...	...	...	...	...	9
Abscess and boils ...	4	1	...	1	...	5	1	...	...	...	12
Burn and scald ...	2	...	...	...	...	...	...	...	...	...	2
Wound and injury ...	1	...	...	...	...	9	9	...	...	...	19
Fracture ...	...	...	...	...	...	1	1	...	...	...	2
Contusion ...	...	...	...	...	...	1	2	...	...	2	5
Tumour ...	...	...	...	...	...	1	...	...	...	...	1
Enlarged glands ...	29	1	...	...	...	1	...	12	...	...	43
Total ...	5,444	153	4	24	...	220	63	129	11	10	6,058

C. G. CROW, K-I-H., I.M.D.,
Port Health Officer, Rangoon.

ANNUAL REPORT
OF THE
PORT HEALTH OFFICER, RANGOON
FOR THE YEAR 1920



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